

REMARKS

Claim 1 was rejected under 35 U.S.C. 102(b) as being anticipated by Momose; Claims 2, 4-6 and 8 were rejected under 35 U.S.C. 103(a) as being unpatentable over Momose in view of Kabir; and Claims 3 and 7 were rejected under 35 U.S.C. 103(a) as being unpatentable over Momose and Kabir as applied to Claims 1 and 5 and further in view of Prior Art Figure 1.

Claim 1 was rejected by the examiner under 35 U.S.C. 102(b) as being anticipated by Momose (5,198,692). The examiner states that Momose teaches a counterdoped collector region 3. In fact the Momose patent does not teach a counterdoped collector as that word is used in the instant application. Momose teaches a n-type epitaxial collector region (Col. 2, line 66, to col. 3., line 1). This expiaxial layer is grown using SiH₂Cl₂ and made n-type. The counterdoped collector is a collector in a certain specified state. It does not describe a process as alluded to by the examiner and claim 1 is not a product-by-process claim. The collector is either counterdoped or it is not counterdoped. Claim 1 of the instant invention claims a counterdoped collector. The Momose patent does not describe a counterdoped collector and so the Momose patent is not a valid 102(b) reference.

Claims 2, 4-6, 8 all contain the limitation of a counter doped collector and are all allowable over the Momose patent either singly or combined with the Kabir et al. patent (6,346,452 B1). Furthermore since claims 3 and 7 also contain the limitation of a counter doped base they are also allowable over the Momose patent either singly or in combination with the Kabir et al. patent (6,346,452 B1) and Figure 1.

In light of the above, it is respectfully submitted that the present application is in condition for allowance, and notice to that effect is respectfully requested.

While it is believed that the instant amendment places the application in condition for allowance, should the Examiner have any further comments or suggestions, it is respectfully

requested that the Examiner contact the undersigned in order to expeditiously resolve any outstanding issues.

To the extent necessary, Applicants petitions for an Extension of Time under 37 CFR 1.136. Please charge any fees in connection with the filing of this paper, including extension of time fees, to the deposit account of Texas Instruments Incorporated, Account No. 20-0668.

Respectfully submitted,



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